

Claims

- [c0001] 1. A cutting apparatus, in particular a microtome or an ultramicrotome, for cutting specimens, comprising an observation device, in particular a stereomicroscope with an objective, a unit base, a knife carrier, an X–Y stage on which the knife carrier is mounted, a linear guide for displacement of the X–Y stage and a plurality of mounting surfaces for the linear guide are milled, directly on the unit base.
- [c0002] 2. The cutting apparatus as defined in Claim 1, wherein stiffening ribs, which are directed upward from a plane of the unit base, are provided in order to enhance stability.
- [c0003] 3. The cutting apparatus as defined in Claim 1, wherein the objective has an increased working distance, in particular of 110 mm.
- [c0004] 4. The cutting apparatus as defined in Claim 1, wherein the observation device comprises a pivoting device on which an illumination device is arranged in such a way that it also pivots as the observation device pivots.

[c0005] 5. The cutting apparatus as defined in Claim 1, wherein a plurality of operating knobs are provided that are arranged in stepped fashion with respect to one another in terms of their lateral position on the stereomicroscope.

[c0006] 6. The cutting apparatus as defined in Claim 1, wherein a unit hood is provided whose corners are recessed in such a way that upon pivoting of the stereomicroscope about its pivot axis, the illumination device and the stereomicroscope can be moved past the unit hood with no contact between them.

[c0007] 7. A microtome or an ultramicrotome, for cutting specimens, comprising a stereomicroscope with an objective, wherein the objective has an increased working distance, of 110 mm, a unit base, a knife carrier, an X-Y stage on which the knife carrier is mounted, a linear guide for displacement of the X-Y stage, and a plurality of mounting surfaces for the linear guide are milled, directly on the unit base.

[c0008] 8. A microtome or an ultramicrotome, for cutting specimens, comprising: a stereomicroscope with an objective, wherein the objective has an increased working distance, of 110 mm, an illumination device is arranged in such a way that it also pivots as the stereomicroscope pivots, a unit base, a knife carrier, an X-Y stage on which the

knife carrier is mounted, a linear guide for displacement of the X-Y stage, and a plurality of mounting surfaces for the linear guide are milled, directly on the unit base.

[c0009] 9. A microtome or an ultramicrotome, for cutting specimens, comprising a stereomicroscope with an objective, wherein the objective has an increased working distance, of 110 mm, a plurality of operating knobs that are arranged in stepped fashion with respect to one another in terms of their lateral position on the stereomicroscope, a unit base, a knife carrier, an X-Y stage on which the knife carrier is mounted, a linear guide for displacement of the X-Y stage, and a plurality of mounting surfaces for the linear guide are milled, directly on the unit base.

[c0010] 10. A microtome or an ultramicrotome, for cutting specimens, comprising a stereomicroscope with an objective, wherein the objective has an increased working distance, of 110 mm, an illumination device is arranged in such a way that it also pivots as the stereomicroscope pivots, a unit hood whose corners are recessed in such a way that upon pivoting of the stereomicroscope about its pivot axis, the illumination device and the stereomicroscope can be moved past the unit hood with no contact between them, a unit base, a knife carrier, an X-Y stage on which the knife carrier is mounted, a linear guide for displacement of the X-Y stage, and a plurality of mount-

ing surfaces for the linear guide are milled, directly on the unit base.